**DEPARTMENT OF ENERGY (DOE) INFORMATION TECHNOLOGY PORTFOLIO MANAGEMENT**

The objective of DOE's information technology (IT) portfolio management is to ensure effective and efficient operations of the Department's business and to support the achievement of its strategic goals and objectives.  The IT portfolio management process enables:

- Comparison of investments in order to develop a portfolio with the most appropriate mix of investments

- Appropriate risk analysis to ensure that the Department can effectively eliminate, mitigate and diversify risk

- Monitoring of portfolio performance including evaluation of whether the portfolio is meeting cost and schedule targets via quarterly control reviews and reporting requirements

- Evaluation of whether the portfolio is achieving desired performance goals and providing value to the Department

- Integration with IT investment management, Enterprise Architecture and Strategic Planning processes.

The Department's IT portfolio management is customer centric and is governed by the processes documented in DOE's *Guide to IT Capital Planning and Investment Control (CPIC)*.  Another guiding principle of DOE's portfolio management is the focus on current performance and future achievement of strategic goals and objectives.  The Department benefits from its IT portfolio and performance management processes by enabling program managers to manage for performance-based program execution and reporting.  DOE also leverages portfolio and performance best practices internally and cross-agency.  Through the management of its portfolio, the agency promotes information synthesis, sharing and mutual support agreements among customers and stakeholders.

The Department has continued to strengthen its portfolio management processes, as well as its strategy for communicating the mission and business impact of the IT portfolio.  OCIO has continued to integrate its CPIC and Enterprise Architecture (EA) processes, working to ensure that our portfolio supports the prioritized needs and strategic direction of the Department.  The approach emphasizes the importance of mission systems that are aligned to the strategic goals and performance measures.  Indeed, a great deal of work has been done to strengthen the tie between DOE's programs and the IT investments that support them.  OCIO continues its program of external outreach, conducting extensive training in portfolio management processes and tools for program offices DOE-wide.  This training was focused on improving specific business case weaknesses found in each program office.

 The Department has also continued to track investments that are linked to programs that have been assessed using the Office of Management and Budget (OMB) Program Assessment and Rating Tool (PART).  DOE has established a "line of sight" between the budget and the performance integration aspect of the President's Management Agenda and PART assessments.  As of the BY 2009 budget cycle, DOE has completed a PART review for 50 of the Department's programs and provided the data to OMB in support of budget decision-making.  The Department's approach to aligning its IT portfolio with program PART results involved documenting the DOE IT landscape through:

- Capturing and detailing the composition of the Department's IT portfolio

- Linking investment metrics to PART programs and results

- Mapping investments to the Federal Enterprise Architecture Performance Reference Model

- Detailing the Department's E-Government efforts

- Identifying the capital planning and investments control activities.

The BY 2008 portfolio totals $2.08 billion, and the BY 2009 portfolio is estimated at $2.02 billion.  While the funding level remains relatively stable for BY 2009, DOE has made several changes in how the portfolio of investments is managed and documented.  Several investments reported as major in BY 2008

are not reported in BY 2009 due to termination, withdrawal, or reclassification.  The affected investments are listed in the table on the following page.

| Title | BY 2008 Unique ID | Reason for Removal |
|---|---|---|
| INL Financial Systems Operations and Maintenance (FSOM) | 019-10-01-01-01-1018-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment. |
| NNSA KCP ERP (KCP-ERP) | 019-05-01-11-01-1034-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment. |
| NNSA LANL ERP (LANL-ERP) | 019-05-01-11-01-1047-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment. |
| NNSA LLNL ERP (LLNL-ERP) | 019-05-01-11-01-1038-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment |
| NNSA Pantex ERP (PXT-ERP) | 019-05-01-11-01-1039-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment |
| NNSA SNL ERP (SNL-ERP) | 019-05-01-11-01-1035-00 | **Reclassification -** This investment was deconsolidated and made into a non-major investment |

Additionally, there is one new major investment in BY 2009.  This investment is listed in the table below.

| Title | BY 2008 Unique ID |
|---|---|
| CBFO WIPP Records Archive | 019-20-01-21-01-1033-00 |

The result of all the efforts described above is a DOE IT portfolio that is focused on supporting Departmental missions and on closing performance gaps in the Agency.  The table on the following pages documents the major IT investments included in the DOE BY 2009 IT portfolio that were submitted to OMB with the budget request in September 2007.  Each of the major IT investments is identified by title and by OMB unique identifier.  In addition, funding sources, relationship to PART and a limited number of performance metrics are displayed.

The table on the following pages provides detailed information on the DOE major IT investments for BY 2009.

**PROGRAM ASSESSMENT AND RATING TOOL ALIGNMENT**

| Agency | FY09 Unique Project ID | FY08 Unique Project ID | Investment Name | OMB Account Number | Reviewed via PART | Program Name | Agency and IT Metric |
|---|---|---|---|---|---|---|---|
| DOE | 019-60-02-00-01-5000-00 | 019-60-02-00-01-5000-00 | Consolidated Infrastructure, Office Automation, and Telecommunications Program | Multiple | No | Chief Information Office | GOAL 5.4 Infrastructure - Build, modernize, and maintain DOE facilities and infrastructure to achieve mission goals and ensure a safe and secure workplace.<br><br>2009 Metric:  Improve utilization through server consolidation by 10% |
| DOE | 019-20-01-12-01-1011-00 | 019-20-01-12-01-1011-00 | EE Corporate Management and Planning System | 019-20-0215 | No | Energy Efficiency & Renewable Energy | GOAL 5.5 Resources – Develop and institutionalize a fully, integrated resources management strategy that meets DOE's mission needs.<br><br>2009 Metric:  Ratio of obligations ($) to approved funding plan ($) by June; 10% |
| DOE | 019-20-04-00-01-1030-00 | 019-20-04-00-01-1030-00 | EE State Grant Administration | 019-20-0215 | No | Energy Efficiency and Renewable Energy | GOAL 1.4 Energy Productivity – Improve the energy efficiency of the U.S. economy.<br><br>2009 Metric:  Maintain at least 90% close-out rate for hotline calls |
| DOE | 019-10-01-15-01-1052-00 | 019-10-01-15-01-1052-00 | BJC Contractor Business and Administrative (CBA) Systems | 019-20-5231-0 | Yes | Environmental Management | GOAL 4.1 Environmental Cleanup – Complete cleanup of the contaminated nuclear weapons manufacturing and testing sites across the U.S. Department of Energy<br><br>2009 Metric:  Maintain 0 successful unauthorized accesses and 0 malicious code attacks for the applications contained in the CBA investment. |
| DOE | 019-10-01-15-01-1014-00 | 019-10-01-15-01-1014-00 | EM HQ Integrated Planning, Accountability, and Budgeting System Information System (IPABS-IS) | 019-10-0242 | Yes | Environmental Management | GOAL 4.1 Environmental Cleanup – Complete cleanup of the contaminated nuclear weapons manufacturing and testing sites across the U.S. Department of Energy<br><br>2009 Metric:  Increase number of reports automatically updated in the Report Module for a total of 95%. |
| DOE | 019-10-01-15-01-1061-00 | 019-10-01-15-01-1061-00 | RL PHMC - Business Management System (BMS) | 019-10-0249 | Yes | Environmental Management | GOAL 5.1 Integrated Management–Institute integrated business management approach throughout DOE with clear roles and responsibilities and accountability to include effective line management oversight by Federal and contractor organizations.<br><br>2009 Metric:  Target is 0 IT Sarbanes-Oxley findings for FY2009 |

| Agency | FY09 Unique Project ID | FY08 Unique Project ID | Investment Name | OMB Account Number | Reviewed via PART | Program Name | Agency & IT Metric |
|---|---|---|---|---|---|---|---|
| DOE | 019-10-01-15-01-1057-00 | 019-10-01-15-01-1057-00 | SR Contractor Business and Administrative (CBA) Systems | 019-10-0251 | Yes | Environmental Management | GOAL 5.2 Customer Services–Establish customer service approach which permeates all DOE organizations to ensure products and services are delivered meet the Department's commitments to the public, state and local governments, and Congress.<br><br>2009 Metric: Increase % internal customer satisfaction with functionality and capability of IT delivered solutions as measured by customer survey. |
| DOE | 019-10-01-15-01-1058-00 | 019-10-01-15-01-1058-00 | SR Mission Support Systems | 019-10-0251 | Yes | Environmental Management | GOAL 5.1 Integrated Management–Institute integrated business management approach throughout DOE with clear roles and responsibilities and accountability to include effective line management oversight by Federal and contractor organizations.<br><br>2009 Metric: Increase % customer satisfaction with functionality and capability of IT delivered solutions. |
| DOE | 019-60-01-01-01-1028-00 | 019-60-01-01-01-1028-00 | CF Integrated Management Navigation System (I-MANAGE) | 019-60-0228 | No | Chief Financial Office | GOAL 5.5 Resources – Develop and institutionalize a fully, integrated resources management strategy that meets DOE's mission needs.<br><br>2009 Metric: Maintain a customer support satisfaction rating of 60%. |
| DOE | 019-05-01-11-01-1050-00 | 019-05-01-11-01-1050-00 | NNSA ASC LANL Roadrunner Platform (formerly NNSA ASC Future Platform) | 019-05-0240-0 | Yes | National Nuclear Security Administration | GOAL 2.1 Nuclear Deterrent – Transform the Nation's nuclear deterrent and supporting infrastructure to be more responsive to the threats of the 21st Century.<br><br>2009 Metric: Sustained calculation speed measured in calculations per second |
| DOE | 019-05-01-11-01-2050-00 | 019-05-01-11-01-2050-00 | NNSA ASC LANL-Q Platform | 019-05-0240-0 | Yes | National Nuclear Security Administration | DOE 2006 Strategic Plan Goal 2.1 - Nuclear Deterrent: Enable transformation of the Nation's nuclear weapons stockpile and supporting infrastructure to be more responsive to the threats of the 21st Century.<br><br>2007 Metric: Percent CPU utilization: Measures the time period (cycles) that a CPU actually performs its intended function to enable weapons designers to respond to stockpile issues in support of the mission to provide capabilities that predict nuclear weapons behavior more responsively.<br><br>(A performance metric is not required for FY 2009, since the investment is not requesting FY 2009 funding. |

| Agency | FY09 Unique Project ID | FY08 Unique Project ID | Investment Name | OMB Account Number | Reviewed via PART | Program Name | Agency & IT Metric |
|--------|------------------------|------------------------|-----------------|--------------------|--------------------|--------------|--------------------|
| DOE | 019-05-01-11-01-2051-00 | 019-05-01-11-01-2051-00 | NNSA ASC LLNL Purple Platform | 019-05-0240-0 | Yes | National Nuclear Security Administration | GOAL 2.1 Nuclear Deterrent – Transform the Nation's nuclear deterrent and supporting infrastructure to be more responsive to the threats of the 21st Century.<br><br>2009 Metric:  Increase percent time available to 96% |
| DOE | 019-05-01-11-01-2052-00 | 019-05-01-11-01-2052-00 | NNSA ASC SNL Red Storm Platform | 019-05-0240-0 | Yes | National Nuclear Security Administration | GOAL 2.1 Nuclear Deterrent – Transform the Nation's nuclear deterrent and supporting infrastructure to be more responsive to the threats of the 21st Century.<br><br>2009 Metric:  Increase percent of CPU utilization to 91% |
| DOE | 019-05-01-11-01-1040-00 | 019-05-01-11-01-1040-00 | NNSA STA Transportation Command and Control System | NNSA Indirect/ Overhead: 000-00-0000-0 | Yes | National Nuclear Security Administration | GOAL 2.2 Weapons of Mass Destruction – Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.<br><br>2009 Metric:  Maintain 100% safety record |
| DOE | 019-05-01-11-01-1045-00 | 019-05-01-11-01-1045-00 | NNSA Y12 ERP | NNSA Indirect/ Overhead: 000-00-0000-0 | No | National Nuclear Security Administration | GOAL 5.4 Infrastructure - Build, modernize, and maintain DOE facilities and infrastructure to achieve mission goals and ensure a safe and secure workplace.<br><br>2009 Metric:  Provide activation of available online query and reporting tools for internal managers, extending the benefits of E-Recruit from HR to the field. Further reduce response/cycle time for hiring process allowing more rapid and effective staff additions |
| DOE | 019-10-01-20-01-1014-00 | 019-10-01-20-01-1014-00 | RW DOE Licensing Support Network (LSN) | 019-20-5227-0 | Yes | Office of Civilian Radioactive Waste Management | GOAL 1.2 Environmental Impacts of Energy – Reduce greenhouse gas emissions and other environmental impacts (water use, land use, criteria pollutants) from our energy production and use.<br><br>2009 Metric:  Process and place onto the DOE LSN 98% of the documents received within 60 days of receipt. |

*DOE IRM Strategic Plan - Addendum*

| Agency | FY09 Unique Project ID | FY08 Unique Project ID | Investment Name | OMB Account Number | Reviewed via PART | Program Name | Agency & IT Metric |
|---|---|---|---|---|---|---|---|
| DOE | 019-10-01-22-01-1013-00 | 019-10-01-22-01-1013-00 | HS E-DOE Integrated Security System+ (eDISS+) | 019-10-0243 | No | Office of Security | GOAL 5.1 Integrated Management–Institute integrated business management approach throughout DOE with clear roles and responsibilities and accountability to include effective line management oversight by Federal and contractor organizations.<br><br>2009 Metric: Achieve 50% of all clearance records being processed through the DOE Case Management System. |
| DOE | 019-10-01-22-01-1016-00 | 019-60-01-22-01-1016-00 | HS (SP) Local Area Nuclear Material Accountability Software (LANMAS) | 019-10-0243 | No | Office of Security | GOAL 2.2 Weapons of Mass Destruction – Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.<br><br>2009 Metric: Maintain current percentage of Inventory coverage. |
| DOE | 019-10-01-22-01-1015-00 | 019-10-01-22-01-1015-00 | HS (SP) Nuclear Materials Management and Safeguards System (NMMSS) | 019-10-0243 | No | Office of Security | GOAL 2.2 Weapons of Mass Destruction – Prevent the acquisition of nuclear and radiological materials for use in weapons of mass destruction and other acts of terrorism.<br><br>2009 Metric: Target improvement goal of 10% for FY 09. Distribute standard NMMSS reports within nine (9) workdays of closure of the monthly accounting period. |
| DOE | 019-20-01-21-01-1033-00 | 019-20-01-21-01-1033-00 | ANL Leadership Computing Facility | 019-20-0222 | Yes | Science | GOAL 3.1 Scientific Discovery – Achieve the major scientific discoveries that will drive U.S. competitiveness, inspire America, and revolutionize our approaches to the Nation's energy, national security, and environmental quality challenges.<br><br>2009 Metric: Increase science data archive capacity to 7 petabytes |
| DOE | 019-20-01-21-01-1021-00 | 019-20-01-21-01-1021-00 | LBNL Energy Sciences Network (ESnet) | 019-20-0222 | Yes | Science | GOAL 3.2 Foundations of Science – Deliver the scientific facilities, train the next generation of scientist and engineers, and provide the laboratory capabilities and infrastructure required for U.S. scientific primacy.<br><br>2009 Metric: Increase the average bandwidth by 20% |
| DOE | 019-20-01-21-01-2019-00 | 019-20-01-21-01-2019-00 | LBNL NERSC-Direct mission-M&O Cont. | 019-20-0222 | Yes | Science | GOAL 3.2 Foundations of Science – Deliver the scientific facilities, train the next generation of scientist and engineers, and provide the laboratory capabilities and infrastructure required for U.S. scientific primacy.<br><br>2009 Metric: Deliver CRHs at or higher than 725 Million CRHs from the NERSC Facility |

| Agency | FY09 Unique Project ID | FY08 Unique Project ID | Investment Name | OMB Account Number | Reviewed via PART | Program Name | Agency & IT Metric |
|---|---|---|---|---|---|---|---|
| DOE | 019-20-01-21-01-1031-00 | 019-20-01-21-01-1031-00 | ORNL Leadership Computing Facility (OLCF)-Direct Mission | 019-20-0222 | Yes | Science | GOAL 3.1 Scientific Discovery – Achieve the major scientific discoveries that will drive U.S. competitiveness, inspire America, and revolutionize our approaches to the Nation's energy, national security, and environmental quality challenges.<br><br>2009 Metric: Sustain or improve overall response time average of 2 business hours |
| DOE | 019-20-01-21-01-1026-00 | 019-20-01-21-01-1026-00 | PNNL EMSL Molecular Science Computing Facility (MSCF) | 019-20-0222 | Yes | Science | GOAL 3.1 Scientific Discovery – Achieve the major scientific discoveries that will drive U.S. competitiveness, inspire America, and revolutionize our approaches to the Nation's energy, national security, and environmental quality challenges.<br><br>2009 Metric: Increase to 3,000 TeraBytes available for archive of scientific data |
| DOE | 019-20-01-21-01-1032-00 | 019-20-01-21-01-1032-00 | SC Lattice Quantum ChromoDynamics Computing (LQCD) | 019-20-0222 | No | Science | GOAL 3.1 Scientific Discovery – Achieve the major scientific discoveries that will drive U.S. competitiveness, inspire America, and revolutionize our approaches to the Nation's energy, national security, and environmental quality challenges.<br><br>2009 Metric: Increase customer satisfaction rating by 5% |
| DOE | 019-10-01-15-01-3326-00 | Not applicable | CBFO Waste Isolation Pilot Plant (WIPP) Records Archive (WRA) | 019-10-0249-0 | Yes | Environmental Management | GOAL 4.2 Managing the Legacy – Manage the Departments' post-closure responsibilities and ensure the future protection of human health and the environment.<br><br>2009 Metric: Increase the percentage of quality images available on-line and via web page access to 98% |